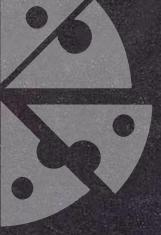


Pizza Sales Analysis—SQL Project

This analysis focuses on querying a comprehensive dataset containing information on pizza sales transactions. By leveraging SQL (Structured Query Language), a powerful tool for managing and analyzing relational databases, I aim to extract meaningful patterns, trends, and statistics that illuminate various aspects of pizza sales performance.

Analyzed by: Ashikur Rahman Ashik



Q1: Retrieve the total number of orders placed.

SELECT
COUNT(order_id) AS total_orders
FROM
orders

total_orders

21350

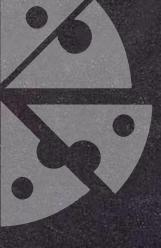


Q2: Calculate the total revenue generated from pizza sales.

total_sales

817860.05





Q3: Identify the highest-priced pizza.

```
pizza_types.name,
    pizzas.price

FROM
    pizza_types

JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

ORDER BY
    pizzas.price

DESC

LIMIT 1
```

..........

name price
The Greek Pizza 35.95



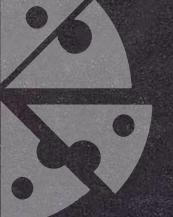


Q4: Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
JOIN order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY
    pizzas.size
ORDER BY
    order_count
DESC;
```

size	order_count	▽ 1
L		18526
M		15385
S		14137
XL		544
XXL		28

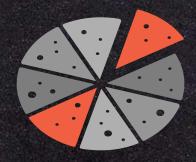




Q5: List the top 5 most ordered pizza types along with their quantities.

namo	quantity	- 4
name	quantity	▽ 1
The Classic Deluxe Pizza		2453
The Barbecue Chicken Pizza		2432
The Hawaiian Pizza		2422
The Pepperoni Pizza		2418
The Thai Chicken Pizza		2371

```
pizza_types.name,
SUM(order_details.quantity) AS quantity
FROM
pizza_types
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY
pizza_types.name
ORDER BY
quantity
DESC
LIMIT 5;
```



Q6: Join the necessary tables to find the total quantity of each pizza category ordered.

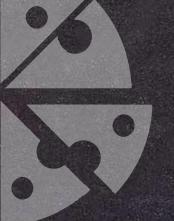
```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY
    pizza_types.category
ORDER BY
    quantity
DESC;
```

category	quantity 🔻 1
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050









Q7:Determine the distribution of orders by hour of the day.

hour	order_count
9	1
10	8
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
70-10-10-27	

```
SELECT

HOUR(TIME) AS hour,

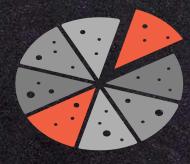
COUNT(order_id) AS order_count

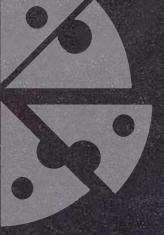
FROM

orders

GROUP BY

HOUR(TIME)
```



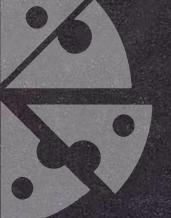


Q8: Join relevant tables to find the category-wise distribution of pizzas.

```
category,
count(NAME)
FROM
pizza_types
GROUP BY
category;
```







Q9: Group the orders by date and calculate the average number of pizzas ordered per day.

avg_pizza_ordered_per_day



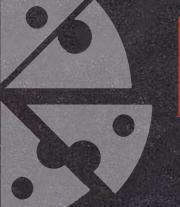
Q10: Determine the top 3 most ordered pizza types based on revenue.

```
pizza_types.name,
SUM(order_details.quantity * pizzas.price) AS revenue
FROM
pizza_types
JOIN pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY
pizza_types.name
ORDER BY
revenue
DESC
LIMIT 3
```





revenue 🔻 1
43434.25
42768.00
41409.50



Q11: Calculate the percentage contribution of each pizza type to total revenue.

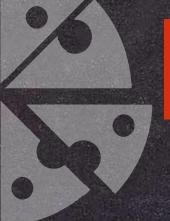
category	revenue_in_percentage	⊽	1
Classic		26	.91
Supreme		25	.46
Chicken		23	.96
Veggie		23	8.68

```
SELECT
    pizza types.category,
    ROUND(SUM(order details.quantity * pizzas.price) /
          (SELECT ROUND(SUM(order_details.quantity * pizzas.price), 2)
           AS total_sales
        FROM
            order details
        JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100, 2 )
                    AS revenue in percentage
FROM
    pizza types
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY
    pizza_types.category
ORDER BY
    revenue in percentage DESC
```









Q12: Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
SELECT name,revenue FROM

(SELECT category ,name,revenue,rank()
  over
   (PARTITION BY category ORDER BY revenue DESC)as rn

FROM

(SELECT pizza_types.category,pizza_types.name,
   sum((order_details.quantity) * pizzas.price) as revenue
   FROM pizza_types JOIN pizzas
   on pizza_types.pizza_type_id=pizzas.pizza_type_id
   JOIN order_details
   on order_details.pizza_id=pizzas.pizza_id
   GROUP BY pizza_types.category,pizza_types.name) AS a )AS b
   WHERE rn <= 3;</pre>
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768.00
The California Chicken Pizza	41409.50
The Classic Deluxe Pizza	38180.50
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.50
The Four Cheese Pizza	32265.70
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.50





Option A

Option B

